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TECH CENTER 1600/2800

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~~7~~. (Amended) The device of claim 1, wherein the antibodies are single-chain antibodies.

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~~8~~. (Amended) A device for detecting the presence of two or more antigens, comprising:
an array containing a plurality of sectors, each sector containing a fibroblast having chimeric antibodies which are expressed on the surface of the fibroblast and are specific for the antigen to be detected, wherein binding of the antigen to the antibodies results in an increase in calcium concentration in the cytosol of the fibroblast, the fibroblast further having an emitter molecule which, in response to the increased calcium concentration in the cytosol, emits a photon;

liquid media in which the fibroblast of each sector is immersed; and

an optical detector arranged for receiving the photon emitted from the fibroblast;

wherein each sector contains a fibroblast having antibodies specific to a different antigen.

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~~10~~. (Amended) The device of claim ~~9~~, wherein the optical detector is in direct contact with the liquid medium.

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~~15~~. (Amended) The device of claim ~~8~~, wherein the antibodies are single-chain antibodies.

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